

Wireless Microphone System

OWNER'S MANUAL — Please read before using this equipment.

Your RadioShack Wireless Microphone System consists of a clip-on electret condenser microphone, an FM transmitter, and a sensitive dual-conversion receiver. The wireless microphone system lets you move freely while it sends the microphone signals to the receiver up to 200 feet away. You can even use the wireless microphone system with your video camera. Other features include:

Wide Frequency Range — assures accurate sound reproduction.

Ceramic Filters — provide optimum sensitivity and selectivity, and minimize interference from other sources.

Two Operation Channels — limit interference and allow use of two microphone systems at the same time.

Large Mute Switch — momentarily turns off the microphone.

Automatic Squelch Circuit — limits background noise when you are not talking into the microphone.

Microphone Clip — provides hands-free operation.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.



CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

INSTALLING BATTERIES

Your transmitter requires 2 AA batteries for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

Cautions:

- Use only fresh batteries of the required size and recommended type.
 - Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
1. Open the battery compartment cover on the transmitter unit.
 2. Install two fresh AA batteries, as indicated by the polarity symbols (+ and -) marked in the battery compartment.
 3. Close the battery compartment cover.

When the battery indicator lights or the microphone stops operating properly, replace the batteries.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Caution: If you do not plan to use the microphone for two weeks or longer, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

USING AC POWER

1. Set **POWER** to **OFF** and **VOLUME** to minimum.
2. Plug the AC cord into a standard AC outlet.

USING VEHICLE BATTERY POWER

You can power the receiver from a vehicle's 12V power source (such as cigarette-lighter socket) using a 12.6V, 35 mA DC adapter (not supplied).

Cautions:



You must use a power source that supplies 12.6V DC and delivers at least 35 mA. Its center tip must be set to positive and its plug must fit the receiver's **DC 12.6V** jack. We recommend RadioShack Cat. No. 270-1533, which meets these requirements. Using an adapter that does not meet these specifications could damage the receiver or the adapter.

- Always connect the DC adapter to the receiver before you connect it to the power source. When you finish, disconnect the adapter from the power source before you disconnect it from the receiver.

Follow these steps to connect DC power.

1. Set **POWER** to **OFF** and **VOLUME** to minimum.
2. Connect the DC adapter to the receiver's **DC 12.6V** jack.

Note: When both AC and DC power are connected, AC power is used.

CONNECTING THE RECEIVER

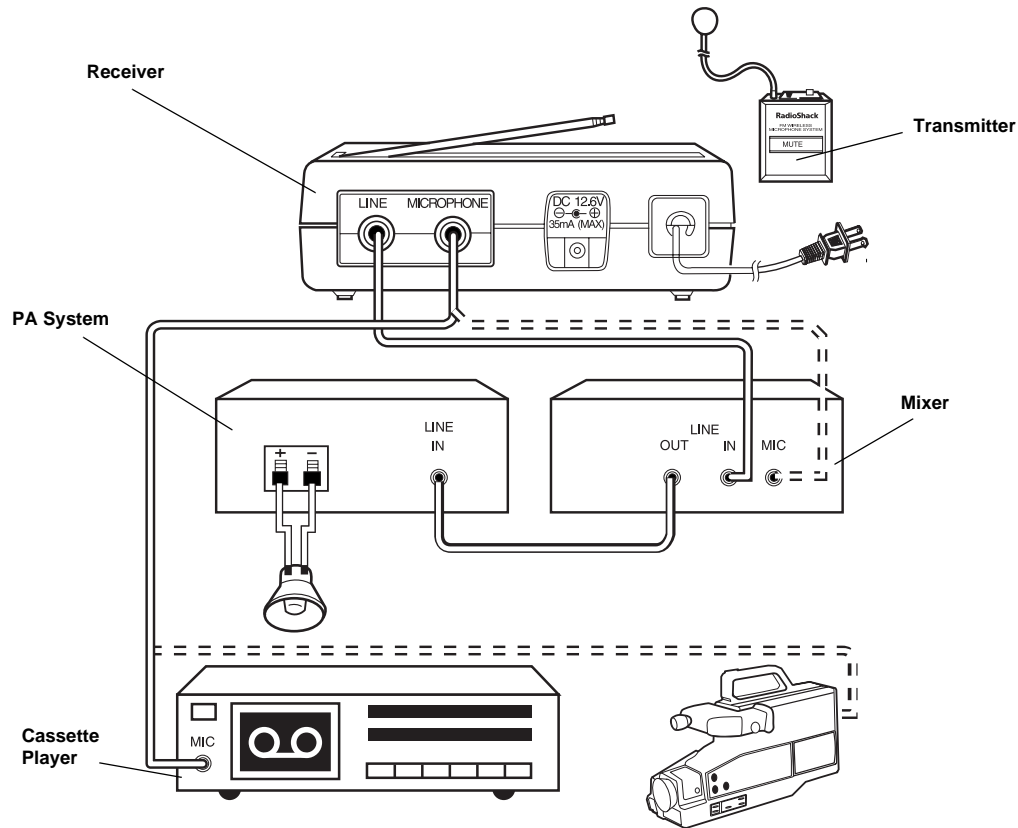
Set **POWER** to **OFF** and **VOLUME** to minimum.

Using a shielded audio cable, connect the **LINE** jack to the line- or aux-input of your PA amplifier, tape deck, mixer, or other input component.

If you are using your amplifier's line- or aux-input for another source, connect the **MICRO-**

PHONE jack to the microphone input of your amplifier.

You can connect both output jacks to amplify and record the microphone signals at the same time.



USING THE MICROPHONE

1. Clip the microphone three to six inches from your mouth.
2. Clip the transmitter to your belt or pocket.
3. Set **POWER** to **ON**. The POWER indicator lights.
4. Fully extend the receiver's telescoping antenna.
5. Set the transmitter's **OFF/STANDBY/TALK** switch to **TALK**. The READY indicator lights.

6. Speak normally and adjust **VOLUME** on the receiver and/or your amplifier to the desired level.

When you finish talking, be sure to move the switch to **OFF** to conserve battery power.

Note: Turn off any receiver channels before turning off your transmitter to prevent "pops".

Using Mute

If you want to momentarily turn off the microphone, press and hold **MUTE**. When you are ready to talk again, release **MUTE**.

Using Standby

Standby lets you control the microphone, but avoid the popping noise that might occur if you move **OFF/STANDBY/TALK** to **OFF**, then back to **TALK**.

If you want to turn off the microphone for a long period of time without turning off the transmitter, set **OFF/STANDBY/TALK** to **STANDBY**. The **READY** indicator stays lit.

When you are ready to talk again, set **OFF/STANDBY/TALK** to **TALK**.

Channels of Operation

The wireless microphone system is available in two different frequencies — 49.830 MHz or 49.890 MHz. This lets you use up to two microphones at the same time on different frequencies without interference.

You can use only one wireless microphone with the same frequency as the receiver at a time. To use two microphones, you must use a microphone and a receiver with the other frequency.

SPECIFICATIONS

Frequency 49.830 MHz or 49.890 MHz \pm 0.01%

Transmitter:

Directivity Omnidirectional

Sensitivity 88 dB SPL at 1.25 kHz FM

Frequency Response 70-10,000Hz

Field Strength Max. 10,000 μ V/m at 10 ft. 3 μ V

Operating Range 200 feet

Power Source 3.0 VDC, Two AA Batteries

Current Consumption Less than 60 mA

Battery Life Approximately 50 hours
with alkaline batteries

Dimensions $3\frac{5}{8}$ x $2\frac{3}{8}$ x $1\frac{1}{8}$ in
(92 x 61 x 28 mm)

Weight 2.9 oz (without batteries)

Receiver:

Intermediate Frequencies 1st: 10.7 MHz
2nd: 455 kHz

Sensitivity with S/N 20 dB 2.5 μ V

S/N Ratio at 1 mV input 50 dB at DC

Output:

Line 510 mV max.

Microphone 10 mV max.

Power Requirements:

AC 120 V 60Hz

DC 12.6V

General:

Dimensions (HWD) $8\frac{11}{16}$ x $5\frac{5}{16}$ x 2 in
(170 x 135 x 50 mm)

Weight 2 lbs
(0.9 kg)

Specifications are typical; individual systems might vary. Specifications are subject to change and improvement without notice.

Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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